```
RESULT 1
AAB13956
     AAB13956 standard; protein; 1402 AA.
AC
     AAB13956;
XX
      15-JUN-2007 (revised)
     16-NOV-2000 (first entry)
XX
DE
     Neurospora crassa ODE-1 protein.
XX
KW
      Gene silencing; quelling deficient; qde-1; al-1; BOND_PC;
teta
     RNA-dependent RNA polymerase;
KM
     RNA-dependent RNA polymerase [Neurospora crassa]; G03968.
XX
os
     Neurospora crassa.
ΥY
PN
     W0200050581-A2.
XX
PD
      31-AUG-2000.
XX
PF
     16-FEB-2000; 2000W0-IT000048.
XX
PR
     22-FEB-1999; 99IT-RM000117.
ХX
PA
      (UYRO-) UNIV ROMA LA SAPIENZA.
XX
ΡI
     Macino G. Coconi C:
XX
DR
     WPI; 2000-579171/54.
DR
      N-PSDB; AAA65171.
DR
     PC:NCBI; q14803727.
XX
PT
     Novel polynucleotide encoding a polypeptide which has a silencing
PT
     activity and comprising a RNA-dependent RNA polymerase domain.
XX
     Claim 21; Fig 4; 48pp; English.
XX
      The present sequence is the Neurospora crassa QDE-1 protein. This protein
     has gene silencing activity. The gde-1 gene was isolated by mutational analysis of an al-1 transgenic strain. This strain had an albino
      phenotype resulting from post-transcriptional silencing of the endogenous
      al-1 gene. Reversion of this phenotype indicated a mutation in a
     silencing gene. The silencing gene, qde-1, could then be isolated. Modulation of qde-1 expression may be used to inactivate genes and to
     silence suppression of denes
      Revised record issued on 15-JUN-2007 : Enhanced with precomputed
cc
     information from BOND.
XX
SO
     Sequence 1402 AA;
  Query Match 100.0%; Score 7397; DB 3; Length 1402; Best Local Similarity 100.0%; Fred. No. 0; Matches 1402; Conservative 0; Mismatches 0; Indels 0;
                                                                       0: Gaps
             1 MNPITPRKRNSPVEEIINRLNNDYNLGLOCVADTTLTPHRRKELAESDEDFGRHDKIYRA 60
Qу
             1 MNPITPRKRNSPVEEIINRLNNDYNLGLOCVADTTLTPHRRKELAESDEDFGRHDKIYRA 60
            61 LNFLYWRKDDSLNQAEANFFIEAKAASSNWVPKAHADPDTLPWSKEPPRAATAGQQWALQ 120
Qу
nh
            61 LNFLYWRKDDSLNOAEANFFIEAKAASSNWVPKAHADPDTLPWSKEPPRAATAGOOWALO 120
           121 TVLLEVLNRFMPPPNNTPGRTFGRTLSGPSGLSRPTSTNTKRKDEPANVTFADPPKRSLT 180
Dio
           121 TVLLEVLNRFMPPPNNTPGRTFGRTLSGPSGLSRPTSTNTKRKDEPANVTFADPPKRSLT 180
           181 RSATGPPIHGAAIPLKFPDPVNTGSKRPSLESENLNQCTKRAKGKLSDNVAAAAAPPVPI 240
Qy
           181 RSATSPPIHGAAIPLKFPDPVNTGSKRPSLESENLNOCTKRAKGKLSDNVAAAAAPPVPI 240
Db
```

Qy	241		300
Db	241		300
Qy	301	APPSQPREKRPVDATVFEAGHLIESPSKGRTTKSHIDNQPLSSSSQGETSFSTYYESFPS	360
Dio		${\tt APPSQPREKRPVDATVFEAGHLIESPSKGRTTKSHIDNQPLSSSSQGETSFSTYYESFPS}$	360
Qy	361	SGGEGAIPEPSRSNGLARSEESARSQVQVHAPVVAARLRNIWPKFPKWLHEAPLAVAWEV	420
Db	361	${\tt SGGEGAIPEPSRSNGLARSEESARSQVQVHAPVVAARLRNIWPKFPKWLHEAPLAVAWEV}$	420
Qy	421	TRLFMHCKVDLEDESLGLKYDPSWSTARDVTDIWKTLYRLDAFRGKPFPEKPPNDVFVTA	480
Db	421	${\tt TRLFMHCKVDLEDESLGLKYDPSWSTARDVTDIWKTLYRLDAFRGKPFPEKPPNDVFVTA}$	480
QY	481	MTGNFESKGSAVVLSAVLDYNPDNSPTAPLYLVKLKPLMFEQGCRLTRRFGPDRFFEILI	540
Db	481	MTGNFESKGSAVVLSAVLDYNPDNSPTAPLYLVKLKPLMFEQGCRLTRRFGPDRFFEILI	540
Qy	541	PSPTSTSPSVPPVVSKQPGAVEEVIQWLTMGQHSLVGRQWRAFFAKDAGYRKPLREFQLR	600
Db	541	PSPTSTSPSVPPVVSKQPGAVEEVIQWLTMGQHSLVGRQWRAFFAKDAGYRKPLREFQLR	600
Qy	601	AEDPKPIIKERVHFFAETGITFRPDVFKTRSVVPAEEPVEQRTEFKVSQMLDWLLQLDNN	660
Db	601	AEDPKPIIKERVHFFAETGITFRPDVFKTRSVVPAEEPVEQRTEFKVSQMLDWLLQLDNN	660
Qy		TWQPHLKLFSRIQLGLSKTYAIMTLEPHQIRHHKTDLLSPSGTGEVMNDGVGRMSRSVAK	
Db	661	TWQPHLKLFSRIQLGLSKTYAIMTLEPHQIRHHKTDLLSPSGTGEVMNDGVGRMSRSVAK	
QY		RIRDVLGLGDVPSAVQGRFGSAKGMWVIDVDDTGDEDWIETYPSQRKWECDFVDKHQRTL	780
Db		RIRDVLGLGDVPSAVQGRFGSAKGMWVIDVDDTGDEDWIETYPSQRKWECDFVDKHQRTL	780
Qy 	781		840
Db		EVRSVASELKSAGINLQLLPVLEDRARDKVKMRQAIGDRLINDLQRQFSEQKHALNRPVE	
Qy Di-	841	FRQWVYESYSSRATRVSHGRVPFLAGLPDSQEETLNFLMNSGFDPKKQKYLQDIAWDLQK	
Db	901	FRQWVYESYSSRATRVSHGRVPFLAGLPDSQEETLNFLMNSGFDPKKQKYLQDIAWDLQK RKCDTLKSKLNIRVGRSAYIYMIADFWGVLEENEVHVGFSSKFRDEESFTLLSDCDVLV	
Qy Db	901	RKCDILKSKINIAVGRSAYIYMIADFWGVLEENEVHVGFSSKFRDEESFTLLSDCDVLV RKCDILKSKINIAVGRSAYIYMIADFWGVLEENEVHVGFSSKFRDEESFTLLSDCDVLV	
QV		ARSPAHFPSDIQRVRAVFKPELHSLKDVIIFSTKGDVPLAKKLSGGDYDGDMAWVCWDPE	
Db			1020
Qy	1021	IVDGFVNAEMPLEPDLSRYLKKDKTTFKQLMASHGTGSAAKEQTTYDMIQKSFHFALOPN	
Dio	1021	IVDGFVNAEMPLEPDLSRYLKKDKTTFKOLMASHGTGSAAKEOTTYDMIOKSFHFALOPN	
Qy	1081	FLGMCTNYKERLCYINNSVSNKPAIILSSLVGNLVDQSKQGIVFNEASWAQLRRELLGGA	
Db	1081		
Qy	1141	LSLPDPMYKSDSWLGRGEPTHIIDYLKFSIARPAIDKELEAFHNAMKAAKDTEDGAHFWD	
Db		LSLPDPMYKSDSWLGRGEPTHIIDYLKFSIARPAIDKELEAFHNAMKAAKDTEDGAHFWD	1200
Qy	1201	1 PDLASYYTFFKEISDKSRSSALLFTTLKNRIGEVEKEYGRLVKNKEMRDSKDPYPV.	1260
Db	1201	PDLASYYTFFKEISDKSRSSALLFTTLKNRIGEVEKEYGRLVKNKEMRDSKDPYPVRVNQ	1260
Qy	1261	VYEKWCAITPEAMDKSGANYDSKVIRLLELSFLADREMNTWALLRASTAFKLYYHKSPKF	1320

Db	1261	${\tt VYEKWCAITPEAMDKSGANYDSKVIRLLELSFLADREMNTWALLRASTAFKLYYHKSPKF}$	1320
Qy	1321	VWQMAGRQLAYIKAQMTSRPGEGAPALMTAFMYAGLMPDKKFTKQYVARLEGDGSEYPDP	1380
Db	1321	${\tt VWQMAGRQLAYIKAQMTSRPGEGAPALMTAFMYAGLMPDKKFTKQYVARLEGDGSEYPDP}$	1380
Qy	1381	EVYEVLGDDDFDGIGFTGNGDY 1402	
Db	1381	EVYEVLGDDDFDGIGFTGNGDY 1402	